

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled SYNCHRONIZATION PULSE DETECTION CIRCUIT, the specification of which was filed on March 4, 1999, as Application Serial No. 09/262,589.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Richard M. Sharkansky, Reg. No. 25,800; Eric L. Prah, Reg. No. 32,590 and Gary A. Walpert, Reg. No. 26,098; David L. Feigenbaum, Reg. No. 30,378; Timothy A. French, Reg. No. 30,175; and John F. Hayden, Reg. No. 37,640.

Address all telephone calls to Richard M. Sharkansky at telephone number 617/542-5070.

Address all correspondence to Richard M. Sharkansky, Fish & Richardson P.C., 225 Franklin Street, Boston, MA 02110-2804.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full Name of Inventor: Christian Willibald Böhm

Inventor's Signature: Christian Willibald Böhm Date: 19 - April - 1999

Residence Address: Breska, Clarina, Co., Limerick, IRELAND

Citizen of: Germany

Post Office Address: Same As Above

Full Name of Inventor: Michael Patrick Daly

Inventor's Signature: Michael Patrick Daly Date: 19 - April - 1999

Residence Address: 3 Season Park, Newtownmountkennedy, Co., Wicklow, IRELAND

Citizen of: Republic of Ireland

Post Office Address: Same As Above

**COMBINED DECLARATION AND POWER OF ATTORNEY CONTINUED**

Full Name of Inventor: Kieran Heffernan

Inventor's Signature: Kieran Kefferna Date: 15 April 1999

Residence Address: 20 Belgard Grove, Patrickswell, Co., Limerick, IRELAND

Citizen of: Republic of Ireland

Post Office Address: Same As Above

[illegible]



06708/015001  
UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D C. 20231

JULY 13, 1999

FISH & RICHARDSON P.C.  
RICHARD M. SHARKANSKY  
225 FRANKLIN STREET  
BOSTON, MA 02110-2804

PTAS

RECEIVED

JUL 21 1999

FISH & RICHARDSON, P.C.  
BOSTON OFFICE



\*101037455A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/03/1999

REEL/FRAME: 9936/0277  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BOHM, CHRISTIAN WILLIBALD

DOC DATE: 04/19/1999

ASSIGNOR:

DALY, MICHAEL PATRICK

DOC DATE: 04/19/1999

ASSIGNOR:

HEFFERNAN, KIERAN

DOC DATE: 04/19/1999

ASSIGNEE:

ANALOG DEVICES, INC.  
ONE TECHNOLOGY WAY  
NORWOOD, MASSACHUSETTS 02062-9106

SERIAL NUMBER: 09262589

FILING DATE: 03/04/1999

PATENT NUMBER:

ISSUE DATE:

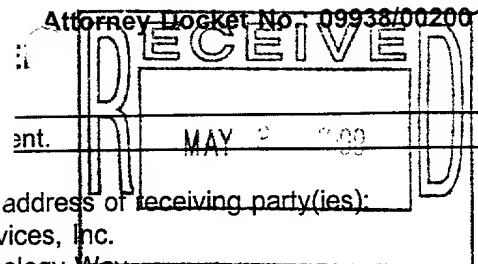
• No Docketing Required •	
Reviewed By Practice Systems	
Initials	<i>HMT</i>
Reviewed By Billing Secretary	
Initials	<i>Cxm</i>

SEDLEY PYNE, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

09900785 071301  
TDE740 98250660

05-12-1999

Attorney Docket No. 09938/002001



Assistant Commissioner for Patents: Plc



101037455

1. Name of conveying party(ies):  
Christian Willibald Böhm, Michael Patrick Daly and  
Kieran Heffernan

2. Name and address of receiving party(ies):  
Analog Devices, Inc.  
One Technology Way  
Norwood, MA 02062-9106

Additional name(s) attached? ☐ Yes ☒ No

Additional names/addresses attached?  
☐ Yes ☒ No

3. Nature of conveyance:  
☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other:

Execution Date: April 19, 1999

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s):  
09/262,589 filed 3/4/99

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name/address of party to whom correspondence  
concerning document should be mailed:

Richard M. Sharkansky  
Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR 3.41): \$40

☒ Enclosed  
☐ Authorized to charge deposit account

8. Deposit account number: 06-1050

If the fee above is being charged to deposit  
account, a duplicate copy of this cover sheet is  
attached. Please apply any additional charges, or  
any credits, to our Deposit Account No. 06-1050.

05/11/1999 JSHABAZZ 00000055 09262589

01 FC:581

40.00 OP

DO NOT USE THIS SPACE

9. Statement and signature: *To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.*

**Richard M. Sharkansky**/Reg.#25,800

Name of Person Signing

Signature

Date

4/29/99

Total number of pages including cover sheet, attachments, and document: 3

Date of Deposit

I hereby certify under 37 CFR 1.8(a) that this correspondence is being  
deposited with the United States Postal Service as **first class mail**  
with sufficient postage on the date indicated above and is addressed to  
the Assistant Commissioner for Patents, Washington, D.C. 20231.

## ASSIGNMENT

For valuable consideration, we, Christian Willibald Böhm, of Limerick, Ireland; Michael Patrick Daly of Wicklow, Ireland and Kieran Heffernan of Limerick, Ireland hereby assign to Analog Devices, Inc., a Massachusetts corporation having a place of business at One Technology Way, Norwood, MA 02062-9106, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest, including, without limitation, the right to sue for past infringement, throughout the world in the inventions and improvements, which are subject of an application for United States Patent signed by us, entitled SYNCHRONIZATION PULSE DETECTION CIRCUIT, filed March 4, 1999, and assigned U.S. Serial Number 09/262,589, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,

this 19th day of April, 1999

Christian Willibald Böhm L.S.  
Christian Willibald Böhm

CITY OF Limerick:

:ss.

COUNTRY OF Ireland:

Before me this 19th day of April, 1999, personally appeared

Christian Willibald Böhm known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Dick Maney  
WITNESS

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,

this 19<sup>th</sup> day of April, 1999

Michael Patrick Daly L.S.  
Michael Patrick Daly

CITY OF Limerick:

:ss.

COUNTRY OF Ireland:

Before me this 19<sup>th</sup> day of April, 1999, personally appeared

Michael Patrick Daly known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

- Diol Meaney  
WITNESS

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,

this 19<sup>th</sup> day of April, 1999

Kieran Heffernan L.S.  
Kieran Heffernan

CITY OF Limerick:

:ss.

COUNTRY OF Ireland:

Before me this 19<sup>th</sup> day of April, 1999, personally appeared

Kieran Heffernan known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

- Diol Meaney  
WITNESS

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Christian W. Bohm et al. GROUP NO.: 2614  
SER. NO.: 09/262,589 EXAMINER: T. Tran  
FILED: March 4, 1999  
FOR: SYNCHRONIZATION PULSE DETECTION CIRCUIT

Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

TRANSMITTAL OF POWER OF ATTORNEY BY ASSIGNEE  
(REVOCATION OF PRIOR POWERS)

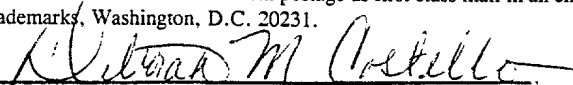
Enclosed herewith is an executed Power of Attorney by Assignee of Entire Interest (Revocation of Prior Powers), and a Change of Correspondence Address together with a Certificate Under 3.73b for the above-identified patent.

Respectfully submitted,



Matthew E. Connors  
Registration No. 33,298  
Samuels, Gauthier & Stevens  
225 Franklin Street  
Boston, Massachusetts 02110  
Telephone: (617) 426-9180  
Extension 112

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.



Deborah M. Costello

Date

2/14/01

09/262,589-01



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Bohm et al. SERIAL NO: 09/262,589

FILED: March 4, 1999

FOR: SYNCHRONIZATION PULSE DETECTION CIRCUIT

NOTE: Insert name(s) of inventor(s) and title also for patent.

Assistant Commissioner of Patents  
Washington, D.C. 20231

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
(REVOCATION OF PRIOR POWERS)**

As assignee of record of the entire interest of the above identified

☒ application

☐ patent

**REVOCATION OF PRIOR POWERS OF ATTORNEY**

all powers of attorney previously given are hereby revoked and

**NEW POWER OF ATTORNEY**

the following attorney(s) and/or agents are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

*(List name and registration number)*

Maurice E. Gauthier	-	20,798	William E. Hilton	-	35,192
Richard L. Stevens	-	24,445	Patrick J. O'Shea	-	35,305
Matthew E. Connors	-	33,298	Arlene J. Powers	-	35,985
			Steven M. Mills	-	36,610
			Anthony P. Onello, Jr.	-	38,572

09/262,589 - 03/04/99

SEND CORRESPONDENCE TO:

Matthew E. Connors, Esq.  
Samuels, Gauthier & Stevens LLP  
225 Franklin Street, Suite 3300  
Boston, Massachusetts 02110

DIRECT TELEPHONE CALLS TO:

Matthew E. Connors  
(617) 426-9180  
Extension 112

Analog Devices, Inc.

Type or print identity of assignee of entire interest

One Technology Way  
Norwood, MA 02062  
Address

[X] Recorded in PTO on May 3, 1999

Reel 9936

Frame 0277

[ ] Recorded herewith

ASSIGNEE STATEMENT

Attached to this power is a "CERTIFICATE UNDER 37 CFR 3.73(b).

Date Dec 15, 2002

William A. Wise, Jr.  
Signature

William A. Wise, Jr.

Type or print name of person authorized to sign on behalf of  
assignee

Corporate Counsel and Assistant Clerk

Title

NOTE: The assignee of the entire interest may revoke previous powers and be represented by an attorney of his or her selection. 37 CFR 1.36.

*(check the following time if it forms a part of this power of attorney)*

[ ] Added page - Authorization of attorney(s) to accept and follow instructions from representative.

## Certificate Under 37 CFR 3.73(b)

**APPLICANT:** Bohm et al.

**SERIAL NO:** 09/262,589

**FILED:** March 4, 1999

**FOR:** **SYNCHRONIZATION PULSE DETECTION CIRCUIT**

Analog Devices, Inc., a Corporation  
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership,  
 university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment recorded ☐ herewith in the Patent and Trademark Office.
- ☒ in the Patent and Trademark Office on May 3, 1999, reel 9936, frame 0277.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:
1. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
  2. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
  3. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document is recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all

09905786 "071301"

statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: Dec 15, 2002

Name: William A. Wise, Jr.

Title: Corporate Counsel and Assistant Clerk

Signature: 

09905786 071301  
T0E T / 0 92450550